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**(54) HOLLOW YARN  
MEMBRANE FILTER**

(57) Abstract:

**PURPOSE:** To prevent the damage of a hollow yarn and to perform effective backwashing, by a method wherein hollow yarns are arranged so that the length of each of the hollow yarns between both adhesive filling parts is so excessive as to satisfy a specific condition with respect to the interval between both adhesive filling parts.

**CONSTITUTION:** In a hollow yarn membrane filter 2, the length  $L_1$  of each of the hollow yarns 2a arranged in a slightly loosened state between upper and lower end adhesive filling parts 6 is set so that an excessive length  $\Delta L$  satisfies the relation  $0.01 \leq \Delta L/L_1 \leq 0.04$  (wherein  $\Delta L = L_1 - L_2$ ) with respect to the distance  $L_2$  between both adhesive filling parts 6. By this method, the whirling-up of the hollow yarns 2a at the time of backwashing and the accompanying

entanglement, bending or breakage can be prevented and, since the hollow yarns 2a are shaken properly, effective backwashing can be performed. Further, a solid component released at the time of backwashing is not accumulated in the hollow yarn membrane filter 2. Furthermore, a liquid effectively flows around the hollow yarns 2a positioned at a central part at the time of filtering.

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